

201-14301B

Robust summaries for

Propanoic acid, 2-hydroxy-, compd. with 3-[2-(dimethylamino)ethyl] 1-(2-ethylhexyl) (4-methyl-1,3-phenylene)bis[carbamate] (1:1)

CAS No. 68227-46-3

Existing Chemical ID: 68227-46-3
CAS No. 68227-46-3

Producer Related Part
Company: PPG Industries, Inc
Creation date: 09-JAN-2003

Substance Related Part
Company: PPG Industries, Inc
Creation date: 09-JAN-2003

Printing date: 10-JAN-2003
Revision date:
Date of last Update: 10-JAN-2003

Number of Pages: 5

Chapter (profile): Chapter: 2.1, 2.2, 2.4, 2.5, 2.6.1, 3.1.1, 3.1.2, 3.3.1, 3.5, 4.1, 4.2, 4.3, 5.1.1, 5.1.2, 5.1.3, 5.1.4, 5.4, 5.5, 5.6, 5.8.1, 5.8.2
Reliability (profile): Reliability: without reliability, 1, 2, 3, 4
Flags (profile): Flags: without flag, confidential, non confidential, WGK (DE), TA-Luft (DE), Material Safety Dataset, Risk Assessment, Directive 67/548/EEC, SIDS

RECEIVED
OPPT NCIC
2003 FEB 14 PM 3:00

2. Physico-chemical Data

2.1 Melting Point

-

2.2 Boiling Point

-

2.4 Vapour Pressure

Value: = .00000003492 hPa at 25 degree C

Method: other (calculated)

GLP: no

Remark: The vapor pressure was estimated using the EPIWIN/MPBPWIN Program. The vapor pressure calculation was done by the modified Grain method.

Reliability: (2) valid with restrictions
Data were obtained by modeling.

10-JAN-2003

2.5 Partition Coefficient

Partition Coeff.: octanol-water

log Pow: = 4.38

Method: other (calculated)

Year: 2003

GLP: no

Remark: The Log Kow was calculated using the EPIWIN/WSKow Program.

Reliability: (2) valid with restrictions
Data were obtained by modeling.

09-JAN-2003

2.6.1 Solubility in different media

-

3. Environmental Fate and Pathways

date: 10-JAN-2003
Substance ID: 68227-46-3

3.1.1 Photodegradation

Type: air
Light source: other
DIRECT PHOTOLYSIS
Half-life t_{1/2}: = 1.128 hour(s)

Method: other (calculated)
Year: 2003
GLP: no

Method: The half-life is calculated using the EPIWIN/AOPWIN Program.
The hydroxyl radical rate constant was calculated to be
113.7966 E-12 cm³/molecule-sec.
Reliability: (2) valid with restrictions
Data were obtained by modeling.

10-JAN-2003

3.1.2 Stability in Water

Type: abiotic

Method: other (calculated)
Year: 2003
GLP: no

Method: Aqueous base/acid catalyzed hydrolysis is calculated using the
EPIWIN/HYDROWIN Program. Total K_b for pH >8 at 25 degree C
was calculated to be 1.343E+1 L/mol-sec with a half-life
calculated to be 14.339 hours.
Reliability: (2) valid with restrictions
Data were obtained by modeling.

09-JAN-2003

3.3.1 Transport between Environmental Compartments

Type: fugacity model level III
Media: water - air
Year: 2003
Air: .000032 % (Fugacity Model Level I)
Water: 14.4 % (Fugacity Model Level I)
Soil: 79.1 % (Fugacity Model Level I)

Method: The EPIWIN Program was used to conduct Level III fugacity
modeling. A mass amount of 6.52% is estimated for sediment
using the same model.
Reliability: (2) valid with restrictions
Data were obtained by modeling.

09-JAN-2003

3. Environmental Fate and Pathways

3.5 Biodegradation

-

4. Ecotoxicity

AQUATIC ORGANISMS

4.1 Acute/Prolonged Toxicity to Fish

-

4.2 Acute Toxicity to Aquatic Invertebrates

-

4.3 Toxicity to Aquatic Plants e.g. Algae

-

5. Toxicity

5.1 Acute Toxicity

5.1.1 Acute Oral Toxicity

-

5.1.2 Acute Inhalation Toxicity

-

5.1.3 Acute Dermal Toxicity

-

5.1.4 Acute Toxicity, other Routes

-

5.4 Repeated Dose Toxicity

-

5.5 Genetic Toxicity 'in Vitro'

-

5.6 Genetic Toxicity 'in Vivo'

-

5.8.1 Toxicity to Fertility

-

5.8.2 Developmental Toxicity/Teratogenicity

-